

ABSTRACT

There is provided a porous hollow fiber of vinylidene fluoride resin which has a water permeation rate that is large per fiber and little dependent on the length, has a large treatment capacity per volume of a filtering module, and is therefore suitable as a microfilter element.

That is, a porous hollow fiber, comprising a vinylidene fluoride resin having a weight-average molecular weight of at least 3×10^5 , having a water permeation rate F ($\text{m}^3/\text{m}^2 \cdot \text{day}$) measured at a pressure difference of 100 kPa and at a water temperature of 25°C in a range of test length $L=0.2\text{--}0.8(\text{m})$ and expressed in a linear relationship with the test length L of: $F=C \cdot L+F_0$ (formula 1) and satisfying requirements (a)-(d) shown below: (a) a average slope C (/day) of: $-20 \leq C \leq 0$, (b) an intercept (basic permeability) F_0 ($\text{m}^3/\text{m}^2 \cdot \text{day}$) of: $F_0 \geq 30$, (c) a relation between F_0 ($\text{m}^3/\text{m}^2 \cdot \text{day}$) and an average pore diameter P (μm) according to half-dry method of $F_0/P \geq 300$, and (d) an outer diameter of at most 3 mm.